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## NOTICE OF ALLOWANCE AND FEE(S) DUE

1933

7590

12/18/2009

FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 220 Fifth Avenue 16TH Floor NEW YORK, NY 10001-7708

EXAMINER
PIHULIC, DANIEL T
ART UNIT
PAPER NUMBER

3662 DATE MAILED: 12/18/2009

APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INVEN		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,067	06/08/2006	Tasuku Teshirogi	06327LH	1546

TITLE OF INVENTION: SHORT RANGE RADAR SMALL IN SIZE AND LOW IN POWER CONSUMPTION AND CONTROLLING METHOD THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/18/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correcte maintenance fee notificat	correspondence includired below or directed oth tions.	g the Patent, advance of terwise in Block 1, by (a	rders and notification of r a) specifying a new corres	naintenance fees w pondence address;	vill be and/or	mailed to the current (b) indicating a sepa	correspond rate "FEE .	ence address as ADDRESS" for
CURRENT CORRESPONDE	ENCE ADDRESS (Note: Use Bl	Feet pape	s) Transmittal. The ers. Each additiona	is certif I paper	g can only be used for icate cannot be used for such as an assignmentalling or transmission.	or any other	r accompanving	
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220 Fifth Avenu 16TH Floor	e	AN & CHICK, PC	I he Stat addı tran	reby certify that thes Postal Service were seed to the Mail smitted to the USP	is Fee( vith suf Stop TO (57	of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	mission g deposited st class mail above, or ate indicate	with the United in an envelope being facsimile d below.
NEW YORK, N	Y 10001-7708							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRM	MATION NO.
10/582,067	06/08/2006	•	Tasuku Teshirogi			06327LH	1	546
TITLE OF INVENTION THEREOF	N: SHORT RANGE RA	ADAR SMALL IN SIZI	E AND LOW IN POWE	R CONSUMPTIO	N ANI	O CONTROLLING 1	METHOD	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DA	ATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	03	3/18/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
PIHULIC, I	DANIEL T	3662	342-070000	•				
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>			(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a second control of the name of a single registered attorney or a second control of the name of the n	me of a single firm (having as a member a attorney or agent) and the names of up to ed patent attorneys or agents. If no name is				
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIC	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee eletion of this form is NO	THE PATENT (print or typ data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment. and STATE OR C	COUNT	'RY)		
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporati	on or other private gro	oup entity [	<b>⅃</b> Government
	are submitted: To small entity discount p # of Copies	b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
1.1	s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no lon	-				
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Sta	iired) will not be accepte tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regi	stered :	attorney or agent; or th	ne assignee	or other party in
Authorized Signature				Date				
Typed or printed name				-				
This collection of informan application. Confident submitting the completed this form and/or suggesti. Box 1450, Alexandria, V Alexandria 223	tiality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th ONOT SEND FEES OR (	on is required to obtain or r 1.1.4. This collection is est depending upon the indive Chief Information Office COMPLETED FORMS TO	etain a benefit by t imated to take 12 r idual case. Any co er, U.S. Patent and D THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, including s on the amount of the lark Office, U.S. Dep D TO: Commissioner	I by the USI g gathering me you requ artment of C for Patents,	PTO to process), preparing, and lire to complete Commerce, P.O. P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/582,067	0/582,067 06/08/2006 Tasuku Teshirogi		06327LH	1546	
1933 75	90 12/18/2009	EXAMINER			
FRISHAUF, HO	LTZ, GOODMAN &	PIHULIC, DANIEL T			
220 Fifth Avenue		ART UNIT	PAPER NUMBER		
16TH Floor NEW YORK, NY	10001-7708	3662			
TIL II TOKK, IVI	10001-7700	DATE MAILED: 12/18/2009			

### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 863 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 863 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
	10/582.067	TESHIROGI ET AL	TESHIROGI ET AL.				
Notice of Allowability	Examiner	Art Unit					
	Dan Pihulic	3662					
	Dan Pillulic	3002					
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm <b>GHTS</b> . This application is	in this application. If not includ nunication will be mailed in due	ed course. <b>THIS</b>				
1. This communication is responsive to							
2. The allowed claim(s) is/are <u>1-22</u> .							
3. Acknowledgment is made of a claim for foreign priority ur  a) All b) Some* c) None of the:		) or (f).					
1. Certified copies of the priority documents have							
2. Certified copies of the priority documents have							
3. Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage applica	tion from the				
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
	4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.						
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	ew ( PTO-948) attached					
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
<ul><li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	s Amendment / Comment	or in the Office action of					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			e back) of				
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of	Informal Patent Application					
Notice of References Cited (PTO-092)     Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),					
•	Paper No	o./Mail Date					
3. 🛮 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 20060608 & 20070702	7. ∐ Examiner'	s Amendment/Comment					
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner'	s Statement of Reasons for Allo	owance				
-	9. 🗌 Other	·					
/Dan Pihulic/							
Primary Examiner, Art Unit 3662							

Application Number: 10/582,067 Page 1 of 1

Art Unit: 3662

1. The following is an examiner's statement of reasons for allowance: the prior art does not

disclose a short range radar with a branch circuit that branches in phase a signal of a reflection

wave into first and second signals, a linear multiplier which linearly multiplies the first and

second signals branched in phase with the branch circuit.

Any comments considered necessary by applicant must be submitted no later than the payment

of the issue fee and, to avoid processing delays, should preferably accompany the issue fee.

Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dan Pihulic whose telephone number is 571-272-6977. The

examiner can normally be reached on Tuesday through Thursday and every other Monday and

Friday from 5:30 a.m. to 4 p.m. If attempts to reach the examiner by telephone are unsuccessful,

the examiner's supervisor, Thomas Tarcza, can be reached on 571-272-6979.

The fax phone numbers for the organization where this application or proceeding is assigned are:

571-273-8300 for official responses, and

571-273-6977 for unofficial communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should

be directed to the telephone number 800-786-9199.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be

obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197.

/Dan Pihulic/ Primary Examiner, Art Unit 3662